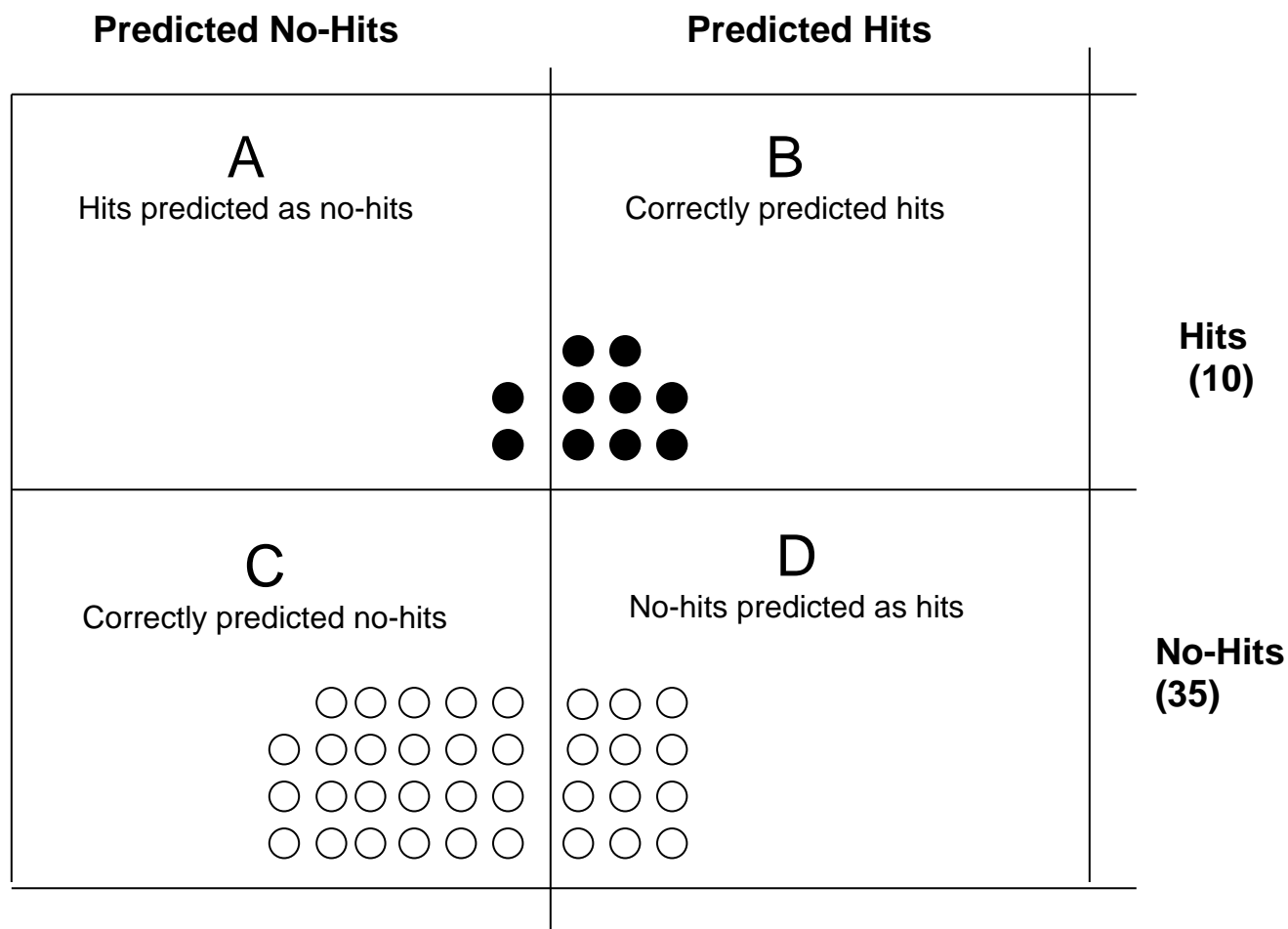




**Figure 1**  
**Example Reliability Measures of High Screening Criteria**  
**22% Hits, 78% No-Hits**



-  Adverse effects observed (hit)  
 No adverse effects observed (no-hit)

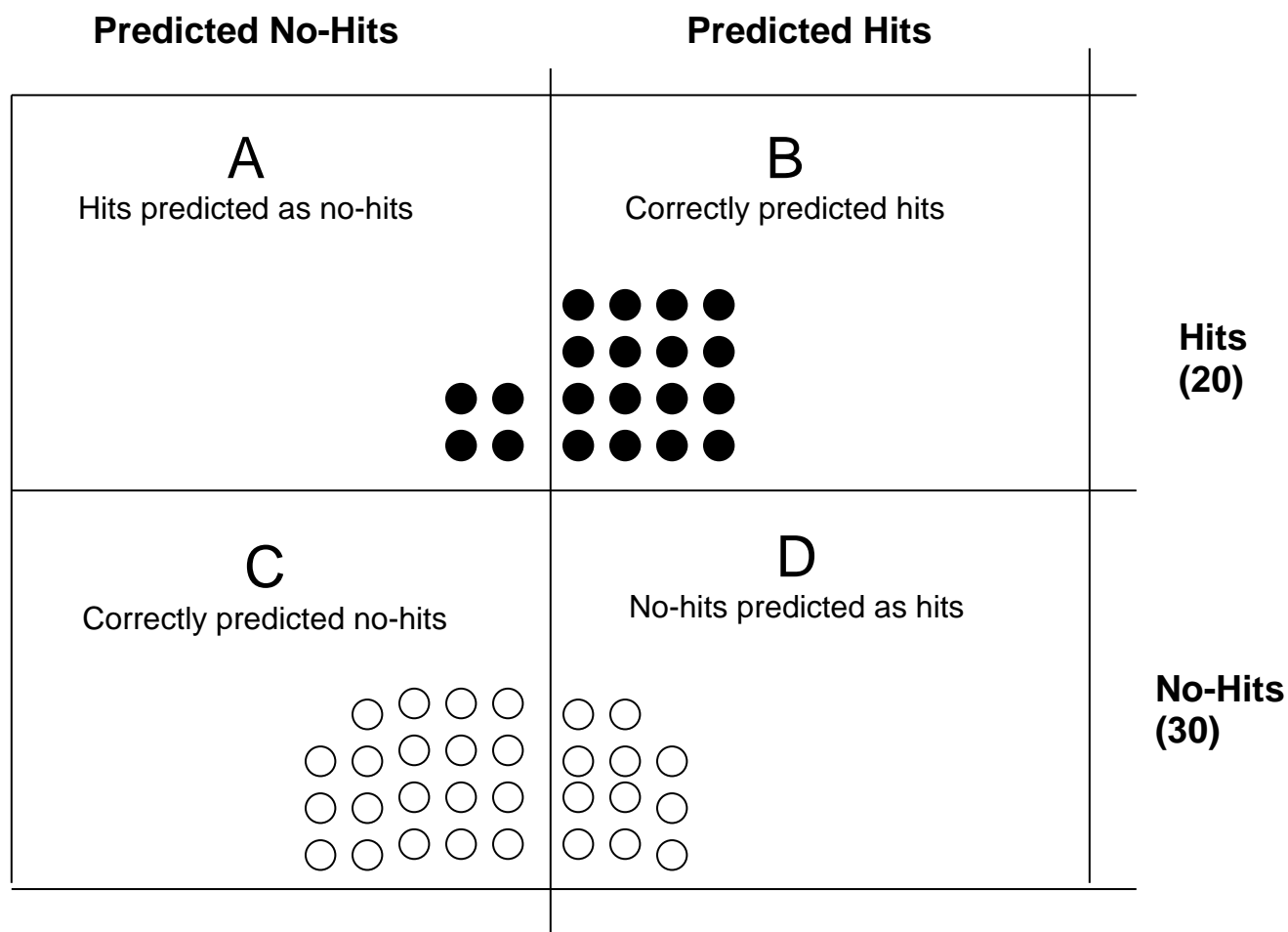
False Negatives =  $A / (A + B) = 0.20$

Predicted-Hit Reliability =  $B / (B + D) = 0.40$

False Positives =  $D / (C + D) = 0.35$

Predicted-No-Hit Reliability =  $C / (A + C) = 0.92$

**Figure 2**  
**Revised Reliability Measures of Screening Criteria**  
**40% Hits, 60% No-Hits**



- Adverse effects observed (hit)
- No adverse effects observed (no-hit)

False Negatives =  $A / (A + B) = 0.20$

Predicted-Hit Reliability =  $B / (B + D) = 0.62$

False Positives =  $D / (C + D) = 0.35$

Predicted-No-Hit Reliability =  $C / (A + C) = 0.83$